IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Hiroaki TAKAYAMA, et al.

Appln. No. 09/214,155

Group Art Unit: 1616

Filed: December 29, 1999

Examiner: Not Yet Assigned

For:

VITAMIN D₃ DERIVATIVE AND ITS PRODUCTION METHOD

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 and 1.98

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed (1) no later than three months from the application's filing date or (2) before the mailing date of the first Office Action on the merits (whichever is later), and therefore no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a corresponding Communication from a Foreign Patent Office citing such documents, together with an English-language version (if not already included) of that portion of the Communication from a Foreign Patent Office indicating the degree of relevance found by the foreign office.

INFORMATION DISCLOSURE STATEMENT U.S. Appln. No. 09/214,155

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,

Registration No. 24,861

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Date: June 30, 1999

Form PTO-1449 (Rev. 2-32) U.S. Department of Commerce Patent & Trademark Office		Atty. Docket No. Q52816	Serial 1	Serial No. 09/214,155		
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicant: Hiroaki TAKAYAMA, et al.			
			Filing Date: December 29, 1999	Group: 1616		
		U.S. PATE	NT DOCUMENTS			
Examiner Initial	Document Number	Date	Name	Class	Sub- Class	Filing Date (if appropriate)
	5,552,392	Sept. 3, 1996	DeLuca, et al.	A61K	31/59	Nov. 3, 1993
	5,585,369	Dec. 17, 1996	DeLuca, et al.	A61K	31/59	May 5, 1995
						
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		T	TENT DOCUMENTS	I ~:	1 ~ .	
	Document	Date	Country	Class	Sub- class	Translation Yes/No
	WO 95/17363	June 29, 1995	PCT	C07C	13/36	Yes
						
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	OTHER DOCUM	MENTS (Including	g Author, Title, Date, Per	rtinent Page	s, Etc.)	
	Dihydroxyvitamin D ₃	Analogs: Synthe	Practical Route to A-Rings of A-Ring Diastereon MISTRY LETTERS, vol	mers of 1α,	25-Dihydro	xyvitamin D ₃ ."
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EXAMINER:			DATE CONSIDEREI	D:		